September 25, 2024

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Purdue's open limited submission competitions, templates, and limited submission policy may be found at http://www.purdue.edu/research/funding-and-grant-writing/limited-submissions.php. Please contact Sue Grimes (sgrimes@purdue.edu) with any questions.

1. **Limited Submissions:**

   Preproposals should be submitted via Purdue's InfoReady portal (https://purdue.infoready4.com/). For any case in which the number of preproposals received is no more than the number of proposals allowed by the sponsor, the OOR will notify the PI(s) that an internal competition will be unnecessary. Questions should be addressed to OORlimited@purdue.edu.

   Limited Submission: ***NSF Safety, Security, and Privacy of Open-Source Ecosystems (Safe-OSE)*** This program solicits proposals from OSEs, including those not originally funded by NSF's Pathways to Enable Open-Source Ecosystems (POSE) program, to address significant safety, security, and/or privacy vulnerabilities, both technical (e.g., vulnerabilities in code and side-channels) and socio-technical (e.g., supply chain, insider threats, and social engineering). The goal of the Safe-OSE program is to catalyze meaningful improvements in the safety, security, and privacy of the targeted OSE that the OSE does not currently have the resources to undertake. Funds from this program should be directed toward efforts to enhance the safety, security, and privacy characteristics of the open-source product and its supply chain as well as to bolster the ecosystem's capabilities for managing current and future risks, attacks, breaches, and responses. Only ***two*** submissions are allowed per institution.

   Internal deadline: Preproposal due in InfoReady by October 28 (template)

   Sponsor deadlines: January 14 – Preliminary proposal; April 22 – Full proposal

   Limited Submission: ***Moore Inventor Fellows*** This fellowship program seeks to support people who create new tools, technologies, processes, or approaches with a high potential to accelerate progress in the foundation's three main areas of interest: 1) scientific research, 2) environmental conservation, and 3) patient care. Examples of such programs include but are not limited to: environmental science and conservation, remote sensing, biology, oceanography, engineering, physics, chemistry, materials science, neuroscience, and public health. Eligible faculty should be within 10 years of their terminal degree. **Before submitting an application to this program, candidates should first confirm that their department head is willing to support their nomination, agrees to commit the $50,000/yr match, and agrees that the candidate can devote at least 25% of their time to their invention.** Only ***two*** submissions are allowed per institution.

   Internal deadline: Preproposal due in InfoReady by October 21 (template)

   Sponsor deadlines: November 15 – Nominations; December 13 - Application

   Internal Coordination Required: ***DOC-NIST FY2024 CHIPS for America*** The purpose of the CHIPS Research and Development (R&D) programs is to advance the development of semiconductor technologies and to enhance the competitiveness of the U.S. semiconductor industry. The CHIPS R&D programs address five cross-cutting issues that were identified through interactions with stakeholders and include: Access to facilities and equipment for late-stage R&D and prototyping; Advanced packaging and testing; Advanced metrology and characterization; Advanced manufacturing technology; and Workforce development. NIST will release a series of NOFOs under this program and it is anticipated that most, if not all, will be limited submission, including those where Purdue is a sub-awardee. **Based on the complexity of this program, all submissions involving Purdue as**

a participant will be coordinated through OOR at all stages (white paper and full submissions) *including those participating as a sub-awardee*.

Internal deadline: Contact OORLimited@purdue.edu if interested in participating in any of these NIST opportunities

Sponsor deadline: On-going

2. **Selected Funding Opportunities**:

NSF Dear Colleague Letter: Advancing Research at the intersection of Biology and Artificial Intelligence (AI)/Machine Learning (ML) To promote research that benefits from AI/ML and reduces barriers to its use in the biological sciences, BIO welcomes proposals that incorporate or advance AI/ML approaches across the research supported in all the Divisions of the BIO Directorate. Proposals in response to this DCL must advance one or more goals represented by NSF biological sciences programs through incorporating or developing AI/ML approaches. Proposers are encouraged to include partnerships between biologists and experts in AI/ML from academia, industry, or other organizations. Deadline: Varies by BIO program

NSF Dear Colleague Letter: ECosystem for Leading Innovation in Plasma Science and Engineering (ECLIPSE): Special Focus on PFAS and Microelectronics NSF encourages submission of interdisciplinary proposals that capitalize on opportunities for bringing fundamental plasma science and engineering investigations to bear on two focus areas of societal and technological need: 1. removal of per- and polyfluoroalkyl substances (PFAS) from the environment; and 2. novel and more efficient methods for fabrication of microelectronics. Proposals submitted in response to this DCL should be responsive to and will be considered within the ECosystem for Leading Innovation in Plasma Science and Engineering (ECLIPSE) meta-program. Deadline: November 18

NSF Biodiversity on a Changing Planet (BoCP) The BoCP program is a cross-directorate and international program led by NSF that invites submission of interdisciplinary proposals addressing grand challenges in biodiversity science within the context of unprecedented environmental change, including climate change. Successful BoCP proposals will test novel hypotheses about functional biodiversity and its connections to shifting biodiversity on a changing planet, with respect to both how environmental change affects taxonomic and functional biodiversity, as well as how the resulting functional biodiversity across lineages feeds back on the environment. Proposals that seek to improve predictive capability about functional biodiversity across temporal and spatial scales by considering the linkages between past, present, and future biological, climatic, and geological processes are also encouraged. Deadline: September 4

NIH Behavioral and Integrative Treatment Development Program (R01) The purpose of this NOFO is to encourage research grant applications on the development and testing of behavioral and integrative treatments for drug and alcohol use, misuse, and dependence. The development and testing of putative targets and mechanisms of behavior change, as well as the use and development of valid and reliable assessment tools are crucial to the three stages of treatment research supported under this initiative: Stage I (treatment generation, refinement); Stage II ("Efficacy"); and Stage III ("Efficacy in Real-World"). Deadline: February 5

NIH Advancing Health Equity through Interventions to Prevent and Address Housing Instability (R01) The purpose of this funding opportunity is to support research that advances health equity through development, testing, and evaluation of interventions that prevent and address housing instability. Applications responding to this NOFO should develop, test, and/or evaluate the impact of a housing intervention on both health and housing outcome(s). NINR is interested in applications that focus on social determinants of health (SDOH) interventions that modify housing opportunities and/or interventions that address housing instability as a social risk by addressing individual and/or interpersonal-level housing needs. Deadline: December 13

NIH BRAIN Initiative: New Technologies and Novel Approaches for Recording and Modulation in the Nervous System (R01) This NOFO seeks applications for proof-of-concept testing and development of new technologies and novel approaches for recording and modulation of neural cells and circuits, to address major challenges and enable transformative understanding of dynamic signaling in the central nervous system. Preliminary feasibility data are not required, and it is expected that the proposed research may be high-risk, but if successful could profoundly change the course of neuroscience research. Deadline: June 2

NIH Mechanism for Time-Sensitive Substance Use Research (R21) This notice of funding opportunity (NOFO) will support pilot, feasibility or exploratory research in priority areas in substance use epidemiology, prevention, and health services. Deadline: May 5

NIH Discovery and Development of Novel Therapeutics for Select Fungal Pathogens (R21/R33) The purpose of this NOFO is to support milestone-driven, early-stage translational research focused on drug discovery and development of novel therapeutics against select fungal pathogens including: Candida species, specifically Candida auris; Aspergillus fumigatus; Coccidioides; and Mucorales. This NOFO will use a milestone-driven, biphasic award mechanism. Transition to the R33 phase will depend on the successful completion of specific milestones during the R21 phase. Deadline: January 28

NIH HEAL Initiative: Studies to Enable Analgesic Discovery (R61/R33) This funding opportunity is part of a suite of NOFOs within the NIH HEAL Initiative to support the development of safe, effective, and non-addictive therapeutics to treat pain. The goal is to encourage initial translational efforts that will support a drug discovery program and advance projects to the point where they meet the entry criteria for the Pain Therapeutics Development Program. The scope will therefore be focused on development of assays to support a distinct testing funnel, screening efforts to identify hits, and initial characterization of hits and potential therapeutic agents (including small molecules, biologics, and natural products). Deadline: January 28

NIH BRAIN Initiative: Optimization of Instrumentation and Device Technologies for Recording and Modulation in the Nervous System (U01) This FOA seeks applications to optimize existing or emerging technologies through iterative testing with end users. The technologies and approaches should have potential to address major challenges associated with recording and modulation (including various modalities for stimulation/activation, inhibition and manipulation) of cells (i.e., neuronal and non-neuronal) and networks to enable transformative understanding of dynamic signaling in the central nervous system (CNS). These technologies and approaches should have previously demonstrated their transformative potential tharough initial proof-of-concept testing and are now ready for accelerated refinement. In conjunction, the manufacturing techniques should be scalable towards sustainable, broad dissemination and user-friendly incorporation into regular neuroscience research. Deadline: June 2

DOE ARPA-E Spurring Projects to Advance Energy Research and Knowledge Swiftly (SPARKS) – Concept Papers
This Funding Opportunity Announcement (FOA) provides a continuing opportunity for the rapid support of early-stage applied research to explore innovative new concepts with the potential for transformational and disruptive changes in energy technology. SPARKS awards are intended to be flexible and may take the form of analyses or exploratory research that provides the agency with useful information for the subsequent development of focused technology programs. SPARKS awards may also support proof-of-concept research to develop a unique technology concept, either in an area not currently supported by the agency or as a potential enhancement to an ongoing focused technology program. Applications must propose concepts that are not covered by open ARPA-E focused FOAs and that do not represent incremental improvements over existing technology. Deadline: On-going

DOE-NETL Gasification of Alternative Feedstocks This Funding Opportunity Announcement (FOA) is for the development of innovative gasification designs/systems for converting alternative feedstocks into syngas to enable the low-cost production of clean hydrogen. The program is motivated by the unique potential of carbon capture-friendly oxygen-blown gasification processes to convert solid mixed biomass and waste feedstocks to clean hydrogen, which is useful as a decarbonized energy carrier and for synthesis of decarbonized

transportation fuels, chemicals, electricity, and other useful products. Areas of interest include: R&D Towards Demonstration of Entrained Flow Gasification Technologies for Alternative Feedstocks; and R&D Towards Demonstration of Fluidized Bed Gasification Technologies for Alternative Feedstocks. Deadline: November 22

NASA-ROSES Lunar Terrain Vehicle Instruments Through this solicitation, NASA's Science Mission Directorate is soliciting proposals for the Lunar Terrain Vehicle Instruments (LTVI) program element for investigations that include development and flight of science-driven instruments. Payloads selected through this program element will be integrated onto the Lunar Terrain Vehicle (LTV) and then delivered with the LTV to the south polar region of the Moon (within 6o latitude of the South Pole) in advance of the Artemis V mission. Deadline: October 23 – Step 1; December 23 – Step 2

EPA Reducing Lead in Drinking Water Grant Program The EPA is soliciting applications from eligible applicants for lead reduction projects in disadvantaged communities in two National Priority Areas: 1) Reduction of Lead Exposure in the Nation's Drinking Water Systems through Full Lead Service Line Replacements and Treatment Improvements; and 2) Reducing Children's Exposure to Lead in Drinking Water in Schools and Childcare Facilities. The EPA expects to make at least one award under each National Priority Area but may redistribute the awards differently based on the quality of applications received and other applicable considerations. Deadline: December 30

Mark Foundation for Cancer Research Drug Discovery Award Through this program, The Mark Foundation aligns with investigators working to discover and progress a new therapeutic agent into preclinical development, providing not only resources to support post-target validation through early lead development but also the expertise of seasoned biopharma R&D scientists who will advise on activities on the critical path to developing a new therapeutic agent. November 11 – Concept letter; full application by invitation

3. **Anticipated Funding Opportunities**

NEH Humanities Connections

NEH Dynamic Language Infrastructure – Documenting Endangered Languages Fellowship

4. **Other:**

DOE-NETL Request for Information on Request for Information on Carbon Transport Research, Development and Demonstration Consortium

ARPA-H releases draft solicitation for Performance and Reliability Evaluation for Continuous modIfications and uSEability of AI (PRECISE-AI)

Write Winning Grants Workshop Purdue is pleased to again host Dr. John Robertson of *Grant Writers' Seminars and Workshops, LLC* for this highly acclaimed grant writing program. Emphasis is given to such things as idea development, identification of the most appropriate granting agency, how to write for reviewers, and tips and strategies that are of proven value in presenting an applicant's case to reviewers. The workshop provides intensive grant writing training interspersed with specific details by agency. Participants will also choose one of four workbooks which provide agency specific grant writing tips and suggestions. The choices include: National Institutes of Health, National Science Foundation, U.S. Dept. of Agriculture, or "Any Other Agency", which covers agencies other than those listed. This **full-day workshop is designed for faculty and full-time staff researchers** who have had some exposure to writing grant applications. Lunch will be provided. Registration is required at: https://purdue.ca1.qualtrics.com/jfe/form/SV_8w9awiV2HzdGMQK. **PLEASE NOTE:** We are unable to accommodate students. Postdoc participants have already been selected for this year.